

# Benjamin Barratt

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,546  
citations

201385

27  
h-index

205818

48  
g-index

69  
all docs

69  
docs citations

69  
times ranked

4132  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen oxides (NO and NO <sub>2</sub> ) pollution in the Accra metropolis: Spatiotemporal patterns and the role of meteorology. <i>Science of the Total Environment</i> , 2022, 803, 149931.	3.9	17
2	The role of the media in staging air pollution: The controversy on extreme air pollution along Oxford Street and other debates on poor air quality in London. <i>Environment and Planning C: Politics and Space</i> , 2022, 40, 611-628.	1.1	6
3	Identifying trends in ultrafine particle infiltration and carbon dioxide ventilation in 92 vehicle models. <i>Science of the Total Environment</i> , 2022, 812, 152521.	3.9	2
4	Comparing human exposure to fine particulate matter in low and high-income countries: A systematic review of studies measuring personal PM <sub>2.5</sub> exposure. <i>Science of the Total Environment</i> , 2022, 833, 155207.	3.9	15
5	Development and Evaluation of Spatio-Temporal Air Pollution Exposure Models and Their Combinations in the Greater London Area, UK. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 5401.	1.2	3
6	Assessing the contributions of outdoor and indoor sources to air quality in London homes of the SCAMP cohort. <i>Building and Environment</i> , 2022, 222, 109359.	3.0	12
7	Evidence for the presence of air pollution nanoparticles in placental tissue cells. <i>Science of the Total Environment</i> , 2021, 751, 142235.	3.9	77
8	Personal exposure to air pollution and respiratory health of COPD patients in London. <i>European Respiratory Journal</i> , 2021, 58, 2003432.	3.1	20
9	Taxi drivers' exposure to black carbon and nitrogen dioxide in electric and diesel vehicles: A case study in London. <i>Environmental Research</i> , 2021, 195, 110736.	3.7	16
10	Spatial-temporal patterns of ambient fine particulate matter (PM <sub>2.5</sub> ) and black carbon (BC) pollution in Accra. <i>Environmental Research Letters</i> , 2021, 16, 074013.	2.2	15
11	Assessing the exposure and hazard of diesel exhaust in professional drivers: a review of the current state of knowledge. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 1681-1695.	1.5	4
12	Characterising professional drivers' exposure to traffic-related air pollution: Evidence for reduction strategies from in-vehicle personal exposure monitoring. <i>Environment International</i> , 2021, 153, 106532.	4.8	15
13	Separating personal exposure from indoor and outdoor sources in a large London cohort (a part of the London Cohort Study). <i>Environmental Health Perspectives</i> , 2021, 129, 106532.	3.0	14
14	Using citizen science to characterise school children's exposure to air pollution. <i>Environmental Research</i> , 2021, 201, 111536.	3.7	16
15	The state of science on severe air pollution episodes: Quantitative and qualitative analysis. <i>Environment International</i> , 2021, 156, 106732.	4.8	26
16	Relationships between airborne pollutants, serum albumin adducts and short-term health outcomes in an experimental crossover study. <i>Chemosphere</i> , 2020, 239, 124667.	4.2	6
17	PM <sub>2.5</sub> on the London Underground. <i>Environment International</i> , 2020, 134, 105188.	4.8	57
18	Comparing the performance of air pollution models for nitrogen dioxide and ozone in the context of a multilevel epidemiological analysis. <i>Environmental Epidemiology</i> , 2020, 4, e093.	1.4	16

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19	Prediction of PM <sub>2.5</sub> concentrations at the locations of monitoring sites measuring PM <sub>10</sub> and NO <sub>x</sub> , using generalized additive models and machine learning methods: A case study in London. <i>Atmospheric Environment</i> , 2020, 240, 117757.	1.9	24
20	Prostaglandin E2 and phagocytosis of inhaled particulate matter by airway macrophages in cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2020, 20, 673-677.	0.3	1
21	The impact of measurement error in modeled ambient particles exposures on health effect estimates in multilevel analysis. <i>Environmental Epidemiology</i> , 2020, 4, e094.	1.4	17
22	High-resolution spatiotemporal measurement of air and environmental noise pollution in Sub-Saharan African cities: Pathways to Equitable Health Cities Study protocol for Accra, Ghana. <i>BMJ Open</i> , 2020, 10, e035798.	0.8	18
23	Interactions between the Physical and Social Environments with Adverse Pregnancy Events Related to Placental Disorders—A Scoping Review. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5421.	1.2	4
24	Airway dendritic cell maturation in children exposed to air pollution. <i>PLoS ONE</i> , 2020, 15, e0232040.	1.1	4
25	Acute Blood Pressure-Lowering Effects of Nitrogen Dioxide Exposure From Domestic Gas Cooking Via Elevation of Plasma Nitrite Concentration in Healthy Individuals. <i>Circulation Research</i> , 2020, 127, 847-848.	2.0	9
26	Predicting Fine Particulate Matter (PM <sub>2.5</sub> ) in the Greater London Area: An Ensemble Approach using Machine Learning Methods. <i>Remote Sensing</i> , 2020, 12, 914.	1.8	71
27	Effects of AIR pollution on cardiopulmonary disease in urban and peri-urban residents in Beijing: protocol for the AIRLESS study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15775-15792.	1.9	11
28	Spatial variability of fine particulate matter pollution (PM <sub>2.5</sub> ) on the London Underground network. <i>Urban Climate</i> , 2019, 30, 100535.	2.4	18
29	Characterising low-cost sensors in highly portable platforms to quantify personal exposure in diverse environments. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4643-4657.	1.2	74
30	Associations between daily air quality and hospitalisations for acute exacerbation of chronic obstructive pulmonary disease in Beijing, 2013–17: an ecological analysis. <i>Lancet Planetary Health</i> , The, 2019, 3, e270-e279.	5.1	104
31	Improved aerosol correction for OMI tropospheric NO <sub>2</sub> retrieval over East Asia: constraint from CALIOP aerosol vertical profile. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1-21.	1.2	75
32	Introduction to the special issue –In-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing)–. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7519-7546.	1.9	95
33	Vertical monitoring of traffic-related air pollution (TRAP) in urban street canyons of Hong Kong. <i>Science of the Total Environment</i> , 2019, 670, 696-703.	3.9	23
34	Air quality changes after Hong Kong shipping emission policy: An accountability study. <i>Chemosphere</i> , 2019, 226, 616-624.	4.2	15
35	Measurement error in a multi-level analysis of air pollution and health: a simulation study. <i>Environmental Health</i> , 2019, 18, 13.	1.7	31
36	Exploration of NO <sub>2</sub> and PM <sub>2.5</sub> air pollution and mental health problems using high-resolution data in London-based children from a UK longitudinal cohort study. <i>Psychiatry Research</i> , 2019, 272, 8-17.	1.7	160

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37	Impact of short-term traffic-related air pollution on the metabolome – Results from two metabolome-wide experimental studies. <i>Environment International</i> , 2019, 123, 124-131.	4.8	42
38	The human circulating miRNome reflects multiple organ disease risks in association with short-term exposure to traffic-related air pollution. <i>Environment International</i> , 2018, 113, 26-34.	4.8	60
39	Integrating travel behavior with land use regression to estimate dynamic air pollution exposure in Hong Kong. <i>Environment International</i> , 2018, 113, 100-108.	4.8	45
40	Cys34 Adductomes Differ between Patients with Chronic Lung or Heart Disease and Healthy Controls in Central London. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2307-2313.	4.6	29
41	Respiratory and cardiovascular responses to walking down a traffic-polluted road compared with walking in a traffic-free area in participants aged 60 years and older with chronic lung or heart disease and age-matched healthy controls: a randomised, crossover study. <i>Lancet, The</i> , 2018, 391, 339-349.	6.3	294
42	Long term exposure to air pollution and mortality in an elderly cohort in Hong Kong. <i>Environment International</i> , 2018, 117, 99-106.	4.8	98
43	Recruitment of patients with Chronic Obstructive Pulmonary Disease (COPD) from the Clinical Practice Research Datalink (CPRD) for research. <i>Npj Primary Care Respiratory Medicine</i> , 2018, 28, 21.	1.1	9
44	Unexpectedly high concentrations of monoterpenes in a study of UK homes. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 528-537.	1.7	29
45	Air pollution and the incidence of ischaemic and haemorrhagic stroke in the South London Stroke Register: a case–cross-over analysis. <i>Journal of Epidemiology and Community Health</i> , 2017, 71, 707-712.	2.0	31
46	Land use regression modelling of air pollution in high density high rise cities: A case study in Hong Kong. <i>Science of the Total Environment</i> , 2017, 592, 306-315.	3.9	125
47	Methods to Estimate Acclimatization to Urban Heat Island Effects on Heat- and Cold-Related Mortality. <i>Environmental Health Perspectives</i> , 2016, 124, 1016-1022.	2.8	48
48	Asthma hospitalisations and air pollution. <i>Thorax</i> , 2016, 71, 1076-1077.	2.7	2
49	Linking e-health records, patient-reported symptoms and environmental exposure data to characterise and model COPD exacerbations: protocol for the COPE study. <i>BMJ Open</i> , 2016, 6, e011330.	0.8	17
50	Modelling individual preferences for environmental policy drivers: Empirical evidence of Italian lifestyle changes using a latent class approach. <i>Environmental Science and Policy</i> , 2016, 65, 65-74.	2.4	33
51	Effect of Exhaust- and Nonexhaust-Related Components of Particulate Matter on Long-Term Survival After Stroke. <i>Stroke</i> , 2016, 47, 2916-2922.	1.0	22
52	Just good enough data: Figuring data citizenships through air pollution sensing and data stories. <i>Big Data and Society</i> , 2016, 3, 205395171667967.	2.6	109
53	Global Associations between Air Pollutants and Chronic Obstructive Pulmonary Disease Hospitalizations: A Systematic Review. <i>Annals of the American Thoracic Society</i> , 2016, 13, 1814-1827.	1.5	43
54	Associations between exhaust and non-exhaust particulate matter and stroke incidence by stroke subtype in South London. <i>Science of the Total Environment</i> , 2016, 568, 278-284.	3.9	28

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55	Semi Automated Transformation to OWL Formatted Files as an Approach to Data Integration. Methods of Information in Medicine, 2015, 54, 32-40.	0.7	4
56	Daytime CO2 urban surface fluxes from airborne measurements, eddy-covariance observations and emissions inventory in Greater London. Environmental Pollution, 2015, 196, 98-106.	3.7	20
57	Carbon in airway macrophages from children with asthma. Thorax, 2014, 69, 654-659.	2.7	47
58	Intervention assessments in the control of PM <sub>10</sub> emissions from an urban waste transfer station. Environmental Sciences: Processes and Impacts, 2014, 16, 1328-1337.	1.7	4
59	P120...Ambient exposure to diesel traffic particles and cardio-respiratory outcomes in healthy and in COPD subjects: "Oxford Street 2". Thorax, 2013, 68, A129-A130.	2.7	2
60	A large reduction in airborne particle number concentrations at the time of the introduction of "sulphur free" diesel and the London Low Emission Zone. Atmospheric Environment, 2012, 50, 129-138.	1.9	76
61	Ozone, heat and mortality: acute effects in 15 British conurbations. Occupational and Environmental Medicine, 2010, 67, 699-707.	1.3	75
62	The impact of the congestion charging scheme on ambient air pollution concentrations in London. Atmospheric Environment, 2009, 43, 5493-5500.	1.9	94
63	Investigation into the use of the CUSUM technique in identifying changes in mean air pollution levels following introduction of a traffic management scheme. Atmospheric Environment, 2007, 41, 1784-1791.	1.9	37
64	Evaluation of TEOMTM "correction factors" for assessing the EU Stage 1 limit values for PM10. Atmospheric Environment, 2001, 35, 2589-2593.	1.9	37